

REMARKS

In an Office Action dated August 3, 2007,. Claims 1-28 were pending in the application. Claim 28 was rejected under 35 U.S.C. § 112 ¶ 2 as being indefinite. Claims 1-5, 8-12, 15-19, and 22-26 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Yoneda et al. (U.S. App. No. 2007/0076703) in view of Bou-Diab et al. (U.S. App. No. 2006/0187950). Claims 6, 7, 13, 14, 20, 21, 27, and 28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Yoneda and Bou-Diab as applied to claims 1, 8, 15, 22, and 23, and further in view of Gainer, et al. (U.S. App. No. 2007/0121628).

Claim 28 was rejected under 35 U.S.C. § 112 ¶ 2 as being indefinite. Claim 28 was amended to be dependent on claim 27 instead of claim 23. Applicants respectfully submit that this rejection has been overcome and request that the rejection be withdrawn.

Claims 1-5, 8-12, 15-19, and 22-26 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Yoneda in view of Bou-Diab. Independent claim 1 is a method that requires:

receiving by a layer 2 switch coupled between a group of receivers and a router, requests for traffic from said group of receivers;
determining, by said switch, whether said traffic requests contain incompatible request types;
if incompatible request types exist, then separating said traffic requests into at least two groups based on type; and
sending requests of different types to said router from distinct addresses.

There is no mention in either cited reference for determining whether there are incompatible request types. The cite to Yoneda to show that it handles both SSM and ASM types is irrelevant, since there is no mention or suggestion there that these would be incompatible. It is only with the hindsight of the present invention that they might be seen as such. It should also be noted that neither reference shows or suggests providing distinct addresses based on incompatible request types, and, in particular, SSM v. ASM type requests.

The Layer 2 switch shown in Bou-Diab is significantly different from the one shown in the present invention. Bou-Diab shows using VPLS technology for providing OSI layer 2 encapsulated packets between geographically disparate LANs which are members of the same VPLS context (§ 49). This is very different from the present invention where:

When a receiver 140 desires to receive content from the source 105, it will send IGMP messages towards router 120 to indicate the content it is interested in group address. The router 120 and other routers within the network cloud 110 will use IP multicast routing protocols to acquire the content, and send it into LAN 150. The content will be available to all systems connected to the LAN; thus, those receivers who do not desire the content will simply ignore the content.

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Figure 2 contains the structure of FIG. 1 and further includes an L2 switch 130 provided to more efficiently manage bandwidth on the access network 150. To prevent content from clogging the ports of receivers, networks typically include the L2 switch 130, also known as a LAN switch, which is a device configured to direct traffic only towards interested ports. This directing may be accomplished through IGMP “snooping”, where L2 switch passively listens to IGMP messages

and learns about the traffic demands on the host(s). L2 switches are typically designed to be a plug-and-play product that requires little or no user configuration.

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For example, one issue is scalability. In modern systems, as many as 400 receivers may be connected to a L2 switch, with several L2 switches coupled to a single router. Proxy reporting is used to off load some of the work of the router. In proxy reporting, the L2 switch aggregates content requests from its attached receivers, and presents only one request to the router, making the L2 switch appear as another host receiver to the router.

Thus, the L2 switch as defined by the specification is a more typical L2 switch which is interposed between a (typically Ethernet) router and a receiver. It interfaces at level 2 between the router and receiver, and is typically essentially transparent to both. It is similar to an L2 hub, except the later rebroadcasts everything to all nodes connected to the hub, whereas the switch only transmits packets to the interested nodes. This is significantly different from the L2 Switches utilized in the Bou-Diab reference, which is one end of an L2 bridge between networks and clearly is not *“a layer 2 switch coupled between a group of receivers and a router”*.

There is further no indication in either cited reference that they *“send requests of different types to said router from distinct addresses”*. Rather, they teach away from this, having no real ability to segregate by type, but rather Bou-Diab segregates each request, regardless of compatibility and types.

Additionally, the two references are in not analogous art. They are in different U.S. subclasses. Further, there is no reason to believe that adding Bou-Diab to Yoneda

would work. The two technologies are significantly different. The only thing bringing the two references together is the hindsight of the present invention.

Significant elements are missing from both the cited references. The justification cited for combining the two is unavailing. The combination is unlikely to work. The other independent claims have similar limitations. For these reasons, applicants respectfully submit that a prima facie case of obviousness has been rebutted, request that that limitation be withdrawn, and that these claims be allowed.

The remaining claims in this section are dependent upon these independent claims, and for those reasons, should also be allowable. Further, as to the dependent claims rejected in this section, no justification was given except for the justification for rejecting the independent claims. It must be assumed from that that the elements claimed in these claims are not present in the two cited reference. For all these reasons, applicants respectfully assert that a prima facie case of obviousness has not be made for these claims, that their rejection cannot be supported, and request that this rejection be withdrawn.

Claims 6, 7, 13, 14, 20, 21, 27, and 28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Yoneda and Bou-Diab as applied to claims 1, 8, 15, 22, and 23, and further in view of Gainer.

These claims are dependent upon the independent claims discussed above, and should therefore be allowable for the same reasons. Further, the justification given for combining references in unavailing. There is no teaching, suggestion, or disclosure that combining the third reference would result in a lower implementation cost. The only justification for combining them this way is forbidden hindsight. The rejection required the use of MAC addresses, and a random disclosure utilizing MAC addresses was selected to provide this element. Additionally, it should be noted that essentially all of

Gainer is cited for these elements without specifically pointing out, as required by the MPEP, where the teaching or suggestion resides in the reference.

For all of these reasons, applicants respectfully submit that a prima facie case of obviousness has not been made, that the rejection of these claims is in error, and request that this rejection be withdrawn.

Applicants respectfully requests that this Amendment be entered. All claims should be allowable. Applicants further respectfully requests that a timely Notice of Allowance be issued in this case.

If the Examiner has any questions regarding this application or this response, the Examiner is requested to telephone the undersigned at 775-586-9500.

Respectfully submitted,
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